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WATER SUPPLY OUTLOOK FOR IDAHO

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

UNITED STATES DEPARTMENT of AGRICULTURE---SOIL CONSERVATION SERVICE,
and
IDAHO STATE RECLAMATION ENGINEER

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

AS OF
JUNE 1, 1969

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1400 snow courses in Western United States and in the Columbia Basin in British Columbia. In the near future, it is anticipated that automatic snow water equivalent sensing devices along with radio telemetry will provide a continuous record of snow water equivalent at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 701 N. W. Glisan, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	P. O. Box "F", Palmer, Alaska 99645
Arizona	6029 Federal Building, Phoenix, Arizona 85205
Colorado (N. Mex.)	12417 Federal Building, Denver, Colorado 80521
Idaho	P. O. Box 38, Boise, Idaho 83707
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Building, Salt Lake City, Utah 84111
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 340, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



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WASHINGTON, D. C.

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STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
BOISE, IDAHO

In Cooperation with

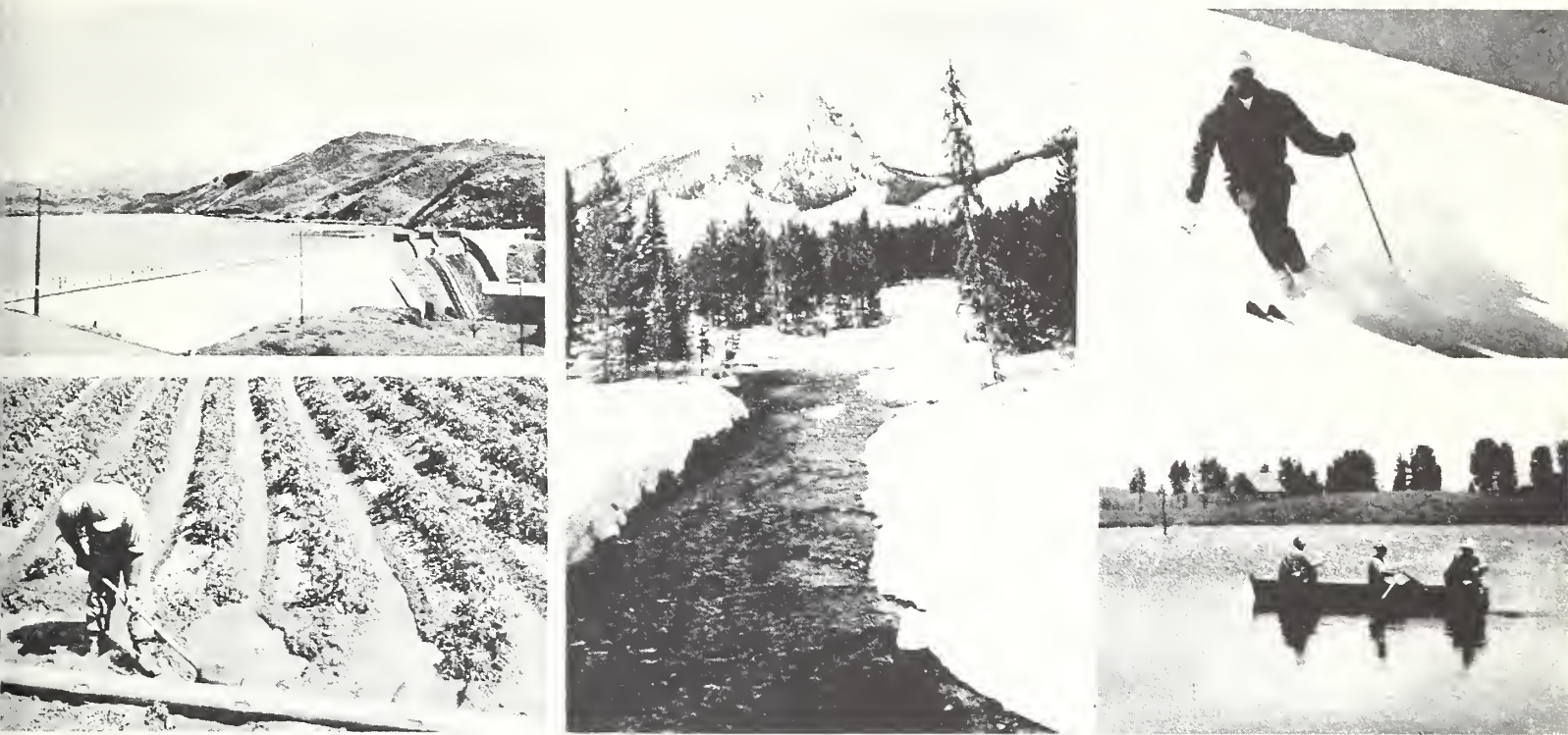
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WATER SUPPLY OUTLOOK for IDAHO



JUNE 1, 1969

SNOW SURVEYS, SUPPLEMENTAL MEASUREMENTS AND CORRECTIONS

Snow surveys made on key courses near the first of June indicate that the high elevation snowmelt has proceeded normally or slightly above during May. The last two and one-half months have been extremely dry throughout the state. Peak flows and volume forecasts have been lowered as a result of the dry trend established since the middle of March. In general, the forecasts made on May 1st are expected to be slightly high as a result of the dry spring. On many of the low elevation streams, the snowmelt contribution to flow is already running low and extremely heavy precipitation would be necessary to significantly change the flow of these rivers.

This report carries corrected measurements made earlier in the season. In some cases, resurveys were made, and others, errors were found in the data.



SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE ^b

JUNE 1, 1969 MEASUREMENTS

Atlanta Summit (SP)	15F4	7500	6/4	--	11.0	9.1	--
Big Creek Summit	15E2	6600	6/4	0	0.0	7.7	--
Brundage Mountain	16D6	7560	5/29	52	26.8	32.0	--
Coolwater Mountain	15C7	6200	5/28	0	0.0	--	--
Coolwater Mountain (R)	15C7	6200	5/28	--	0.0	--	--
Crater Meadows	15C9	6100	5/28	26	18.6	--	--
Elk Butte	16C15	5550	5/28	0	0.0	0.0	--
Galena Summit	14F12	8795	6/4	6	3.0	8.2	--
Goat Lake	14C9	6600	5/28	55	30.3	42.8	--
Granite Peak	15B13	6000	5/28	42	22.4	26.7	--
Hemlock Butte	16C6	5500	5/28	33	18.4	19.1	--
Hemlock Butte (R)	16C6	5500	5/28	--	20.4	--	--
Hemlock Butte (SP)	16C6	5500	5/28	--	21.9	--	--
Lookout	15B2	5250	5/26	31	16.6	11.0	--
Lost Lake	15B14	6000	5/28	83	43.0	32.6	--
Medicine Ridge	15B4	6150	5/28	48	25.0	32.3	--
Moore's Creek Summit	15F1	6100	5/29	9	4.4	0.0	6.8
Orogrande Mountain	15D4	7800	5/28	53	27.6	44.5	--
Orogrande Mountain (R)	15D4	7800	5/28	--	26.1	--	--
Schweitzer Bowl	16A6	4500	5/29	0	0.0	0.0	--
Schweitzer Ridge	16A5	6100	5/29	82	43.0	24.8	--

SUPPLEMENTAL MEASUREMENTS - NOVEMBER 15, 1968

Pierce Rgr. Sta.	15C5	3170	11/15	5	0.4	--	--
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DECEMBER 1, 1968

Bogus Basin	16F2	6120	12/3	19	4.4	1.9	--
Bogus Basin Road	16F4	5360	12/3	11	2.0	0.6	--
Boulder Creek	16D1	5500	11/27	16	3.6	2.0	--
China Hat	11G2	6300	12/2	9	1.3	0.6	--
Crumarine Creek	16C6	3500	11/30	4	1.0	1.0	--
East Twin	16C3	4000	11/30	6	1.5	1.0	--
Emigrant Summit	11G6	7350	11/26	22	4.6	1.0	--
Giveout	11G16	6840	11/27	10	2.1	T	--
Greer Summit	16C13	3000	11/26	T	T	--	--
Howard Creek	16C5	3500	11/30	T	T	1.0	--
Lower Home Canyon	11G27	7500	11/27	15	3.0	--	--
Moore's Creek Summit	15F1	6100	12/1	22	4.6	2.9	--
Moscow Mountain	16C2	4400	11/30	9	2.2	1.5	--
Pierce Rgr. Sta.	15C5	3170	11/27	5	0.6	--	--
Somsen Ranch	11G1	7000	12/2	19	3.0	1.2	--
Upper Home Canyon	11G26	8500	11/27	25	5.9	--	--
West Twin	16C4	4200	11/27	6	1.5	1.0	--
Willow Flat	11G4	6100	11/29	14	2.1	0.0	--

(b) 1953-67, 15 year period. * Not located directly on this drainage. * Estimated 1953-67, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.



SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE ^b

SUPPLEMENTAL MEASUREMENTSDECEMBER 15, 1968

Above Greer	16C11	1240	12/13	0	0.0	--	--
Bogus Basin	16F2	6120	12/17	25	5.6	4.0	--
Bogus Basin Road	16F4	5360	12/17	9	1.9	2.0	--
Greer Summit	16C13	3000	12/13	T	T	--	--
Midway	16C12	2200	12/13	0	0.0	--	--
Moore's Creek Summit	15F1	6100	12/22	40	9.8	5.0	--
Pierce Rgr. Sta.	15C5	3170	12/13	13	2.5	--	--
Trinity Mountain	15F5	7780	12/17	43	10.8	--	--

JANUARY 1, 1969

Trinity Mountain	15F5	7780	1/7	67	17.3	10.7	--
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JANUARY 15, 1969

Above Greer	16C11	1240	1/15	6	1.5	--	--
Bad Bear	15F2	5500	1/18	37	9.7	--	--
Bogus Basin	16F2	6120	1/15	55	15.3	6.6	--
Bogus Basin Road	16F4	5360	1/15	18	5.8	--	--
Galena	14F1	7300	1/16	59	13.1	9.2	--
Galena Summit	14F12	8795	1/16	73	17.6	11.3	--
Greer Summit	16C13	3000	1/15	9	3.0	--	--
Midway	16C12	2200	1/15	8	2.1	--	--
Moore's Creek Summit	15F1	6100	1/18	79	23.0	9.8	--
Mount Baldy	14F9	9000	1/14	71	14.8	8.6	11.0
Pierce Rgr. Sta.	15C5	3170	1/15	35	10.4	5.2	--

FEBRUARY 1, 1969

Moscow Mountain	16C2	4400	2/8	69	19.6	6.4	12.2*
Sawtelle Mountain	11E32	9100	2/5	119	41.5	--	--

FEBRUARY 15, 1969

Above Greer	16C11	1240	2/13	6	3.0	--	--
Bad Bear	15F2	5500	2/17	53	18.6	--	--
Bogus Basin	16F2	6120	2/14	83	28.4	9.0	16.5
Bogus Basin Road	16F4	5360	2/13	36	10.9	--	--
Fourth of July Summit	16B3	3100	2/14	55	15.0	--	--
Galena	14F1	7300	2/13	85	24.6	11.8	--
Galena Summit	14F12	8795	2/13	95	27.9	14.4	--
Greer Summit	16C13	3000	2/13	14	5.2	--	--
Lookout	15B2	5250	2/17	112	40.8	--	--
Midway	16C12	2200	2/13	11	4.0	--	--
Moore's Creek Summit	15F1	6100	2/17	105	37.7	13.8	--
Mount Baldy	14F9	9000	2/14	98	27.8	11.2	15.4

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SNOW

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			DATE OF SURVEY	SNOW DEPTH (inches)	WATER CONTENT (inches)	WATER CONTENT (inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE ^b

SUPPLEMENTAL MEASUREMENTSMARCH 1, 1969

Bear Canyon	13F3	7920	3/10	89	30.8	12.6	15.2
Copper Basin	13F2	7650	3/10	54	19.2	7.8	8.0
Stickney Mill	14F2	7500	3/10	54	17.2	7.1	7.8

MARCH 15, 1969

Above Greer	16C11	1240	3/14	0	0.0	--	--
Bogus Basin	16F2	6120	3/14	82	30.4	11.9	20.6
Bogus Basin Road	16F4	5360	3/11	33	11.0	T	--
Fourth of July Summit	16B3	3100	3/14	53	17.6	0.0	--
Galena	14F1	7300	3/13	77	27.8	13.8	--
Galena Summit	14F12	8795	3/13	89	30.8	17.7	--
Greer Summit	16C13	3000	3/14	14	5.2	--	--
Lookout	15B2	5250	3/16	106	44.8	27.0	--
Midway	16C12	2200	3/14	T	T	--	--
Moore's Creek Summit	15F1	6100	3/18	99	38.1	19.9	--
Mount Baldy	14F9	9000	3/17	95	31.6	13.4	19.0
Pierce Rgr. Sta.	15C5	3170	3/14	43	14.7	2.0	11.4
Prairie	15F6	4900	3/15	30	10.3	T	--
Sherwin	16C1	3200	3/15	52	18.2	5.2	--
Silver Creek Ridge	15E5	5700	3/21	66	25.1	--	--
Trinity Mountain	15F5	7780	3/18	133	53.8	--	--

APRIL 15, 1969

Above Greer	16C11	1240	4/14	0	0.0	--	--
Bad Bear	15F2	5500	4/16	15	6.7	0.0	--
Big Springs	11E9	6500	4/15	51	23.0	17.1	--
Bogus Basin	16F2	6120	4/15	63	29.3	14.8	--
Bogus Basin Road	16F4	5360	4/15	0	0.0	0.0	--
Buck Meadows	15D5	5600	4/16	57	25.8	26.8	--
Galena	14F1	7300	4/16	50	22.2	11.9	--
Galena Summit	14F12	8795	4/16	76	30.6	19.0	--
Greer Summit	16C13	3000	4/14	0	0.0	--	--
Island Park	11E10	6315	4/15	43	18.8	11.0	--
Lookout	15B2	5250	4/16	88	42.9	31.0	--
Midway	16C12	2200	4/14	0	0.0	--	--
Moore's Creek Summit	15F1	6100	4/16	74	34.6	19.8	30.2
Mount Baldy	14F9	9000	4/15	83	32.3	14.9	--
Pierce Rgr. Sta.	15C5	3170	4/15	10	4.3	--	5.0
Prairie	15F6	4900	4/15	0	0.0	0.0	--
Sawtelle Mountain	11E32	9100	4/15	105	47.3	30.9	--
Targhee Pass	11E34	7000	4/15	53	23.4	--	--
Valley View	11E8	6500	4/15	45	20.6	17.1	--

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SNOW

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			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE ^b

SUPPLEMENTAL MEASUREMENTSMAY 15, 1969

Above Greer	16C11	1240	5/15	0	0.0	--	--
Bogus Basin	16F2	6120	5/19	T	T	2.5	--
Galena	14F1	7300	5/16	1	0.6	0.0	--
Galena Summit	14F12	8795	5/16	42	20.2	17.0	--
Greer Summit	16C13	3000	5/15	0	0.0	--	--
Lookout	15B2	5250	5/15	53	26.6	22.7	--
Midway	16C12	2200	5/15	0	0.0	--	--
Moore's Creek Summit	15F1	6100	5/18	25	12.8	8.3	--
Mosquito Ridge	15B4	6150	5/13	56	30.6	--	--

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SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (inches)	WATER CONTENT (inches)	WATER CONTENT (inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE ^b

CORRECTIONS TO PREVIOUSLY PUBLISHED 1969 DATA

JANUARY 1, 1969

Above Greer	16C11	1240	1/6	7	1.6	0.0	--
Freds Mountain	10F22	8000	1/3	45	11.8	--	--
Galena	14F1	7300	12/30	42	9.8	5.5	7.8
Galena Summit	14F12	8795	12/30	51	12.4	7.6	9.9
Lower Pebble	12G6	5800	12/30	39	8.5	3.8	--
Greer Summit	16C13	3000	1/6	9	2.1	0.0	--
Midway	16C12	2200	1/6	8	1.9	0.0	--
Mount Baldy	14F9	9000	12/29	52	9.6	5.0	8.8
Muldoon	13F5	6300	1/3	20	3.8	2.2	3.1
Pebble Creek	12G2	6550	12/30	33	7.2	4.1	--

FEBRUARY 1, 1969

Greer Summit	16C13	3000	1/30	15	4.2	T	--
Henry Creek	11F6	5650	1/29	8	2.0	5.2	--
Mill Creek Summit	14E1	8870	2/3	80	25.4	13.4	--
North Bancroft #1	11G23	5460	2/3	7	2.1	5.4	--
North Bancroft #2	11G22	5430	2/3	5	1.1	3.0	--
Pole Creek R. S.	15H14	8330	1/30	49	14.2	9.2	10.8*
Sublett	12G8	6000	1/28	29	8.4	5.2	6.2*

MARCH 1, 1969

Austin Bros. Ranch	11G3	6450	2/28	36	9.5	8.8	6.8*
Mill Creek Summit	14E1	8870	3/3	76	29.0	17.6	19.3*
North Bancroft #2	11G22	5430	2/27	12	2.4	4.0	--

APRIL 1, 1969

Benton Meadow	16A2	2344	3/31	15	6.7	0.3	3.2
Crumarine Creek	16C6	3340	4/4	10	4.4	0.0	4.1*
Greer Summit	16C13	3000	3/27	7	3.2	0.0	0.0*
Lost Garfield	13E3	6600	4/1	17	4.0	T	3.0*
Placer Creek	16E2	6000	3/28	66	23.5	13.9	16.8
North Bancroft #2	11G22	5430	3/27	6	2.8	0.0	--
North Bancroft #1	11G23	5460	3/27	10	3.8	0.0	--

MAY 1, 1969

Atlanta Summit	15F4	7500	5/1	82	39.9	24.2	35.4*
Kilgore	11E12	6200	5/2	24	14.6	--	--
State Line	11F1	6400	5/1	10	4.2	0.0	8.5

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Agencies and Organizations Cooperating in Idaho Snow Surveys

GOVERNMENT AGENCIES

Canada:

Department of Lands, Forests, and
Water Resources, British Columbia
Department of Resources and Development,
Water Resources Division

States:

Idaho State Reclamation Engineer
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of
State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U. S. Army Engineers
U. S. Department of Agriculture
Forest Service
Agricultural Research Service
U. S. Department of Commerce
Environmental Sciences Service Administration,
Weather Bureau
U. S. Department of the Interior
Bonneville Power Administration
Bureau of Reclamation
Fish and Wildlife Service
Water Resources Division, Geological Survey
Indian Service
National Park Service
Bureau of Land Management

PUBLIC UTILITIES

The Montana Power Company
Washington Water Power Company
Idaho Power Company
Utah Power and Light Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Boise Project Board of Control
Little Wood River Irrigation District
Jordan Valley Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Twin Lakes Irrigation Company
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control

PRIVATE CORPORATIONS

Amalgamated Sugar Company

*Other organizations and individuals furnish valuable information for
snow survey reports. Their cooperation is gratefully acknowledged.*

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
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domestic and municipal water
supply, hydro-electric power
generation, navigation,
mining and industry

*"The Conservation of Water begins
with the Snow Survey"*

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